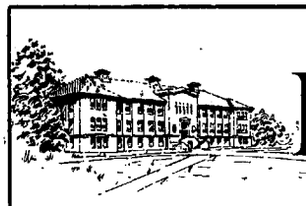

NOTES OF THE CAMPUS

CERAMIC ENGINEERING

The teaching staff as announced for this year is as follows: Professor Arthur S. Watts represents the white ware, electrical porcelain, sanitary ware, chemical ware, art ware, and special ware industries; Professor John L. Carruthers represents the terra cotta, brick and hollow structural ware industries, kiln, drier, and plant design; Professor Geo. A. Bole represents the refractories and cement industries, the chemistry of silicates, and special plant economies; Dr. S. R. Scholes represents the glass industries, and Mr. T. M. Felton represents the metal enamel industry. Each of these teachers is a specialist in his field and has a practical as well as a theoretical knowledge of his subjects.

Many additions and improvements are being made to the equipment of the Ceramic Department and it will be better able than ever before to teach this highly specialized course.

The Government Ceramic Research Station located in the west wing has been transferred from the Bureau of Mines to the Bureau of Standards and will be in charge of J. S. McDowell, Cer. '17. This change will permit the investigation of many subjects not possible under the former arrangement.

The establishment of a semi-commercial research plant in connection with the state-owned brick plant will enable the Ceramic Department and the Engineering Experiment Station of The Ohio State University to conduct many important industrial researches, which has never before been possible.

The brick plant which was erected at Lord Hall, but which was never used because of the large expense involved, will be removed to this new research station and the space that it now occupies will be made available for additional laboratory apparatus, including several new testing furnaces.

The Seniors of this year have accepted positions of follows:

R. D. Beck—Pfaudler Mfg. Co., Elyria, Ohio.

C. A. Bloor—Square D Co., Peru, Ind.

K. E. Buck—U. S. Bureau of Standards.

V. E. Campbell—Returning to O. S. U. for advanced work.

G. R. Daniel—Ironton Fire Brick Co., Ironton, Ohio.

L. J. Franz—A. P. Green Fire Brick Co., Mexico, Mo.

R. F. Grady—St. Louis Terra Cotta Co., St. Louis, Mo.

A. E. Lepper—C. B. Harrop Co., Columbus, Ohio.

C. C. Mayfield—Standard Sanitary Mfg. Co., Tiffin, Ohio.

C. L. Merritt—Instructor at New York School of Ceramics, Alfred, N. Y.

G. H. Merry—Merry Bros. Brick Co., Augusta, Ga.

G. R. Sylvester—C. B. Harrop Co., Columbus, Ohio.

F. H. Watkins—Barnes Mfg. Co., Mansfield, Ohio.

K. M. Chiu, R. W. MacDonald and E. L. Harcourt have also completed the course with the exception of a few hours' credit and will be graduated early in the next school year.

Harold E. Simpson receives his Master of Science degree this year and will re-enter the Graduate School for the Doctor of Philosophy degree.

F. C. Westendick has become Assistant Professor at New York School of Ceramics, Alfred, N. Y.

A. S. C. E.

Prof. C. E. Sherman spoke on the general theme, "Opportunities of the Civil Engineer for Service." He stressed the need of a greater ability for civil engineers to express themselves, as they are more in contact with the public than most other engineers. As an illustration of this point he remarked that every county in the nation has a county engineer or surveyor, and that each city of any size has a city engineer.

Prof. C. T. Morris pointed out the advantages of student membership in the society. He mentioned the material reduction in the junior initiation fees for former student members. He told of the headquarters of the parent organization in New York, and said that the club rooms are open to all members of student societies.

It was decided to have a dinner meeting the first Tuesday in each month and to dispense with other business meetings.

Due to the fact that Brown Hall was repainted this summer some of the old students were not sure that they were in the right building when they came back. The old concrete laboratory in the east end of the basement has been converted into an instrument room, thus relieving the overcrowded condition of the old room. The latter is to be fitted for classroom work. As the floor of the present instrument room is of concrete, the jar on the instruments produced by setting them on the hard surface is considerable, and steps are being taken toward providing a more resilient covering for this floor.

A new traveling crane has been installed in the Chemical Engineering Machine Laboratory.

The gas retort which was formerly behind Lord Hall has been installed at the east side of the Experimental Laboratory and is now ready for advanced graduate work.

More than $1,000 worth of new equipment has been installed for the Ceramic Engineering Department and an equal amount was spent in rebuilding old laboratories and increasing accommodations for the students.

Of the nine schools of Ceramic Engineering in North America, seven have heads who are graduates of the Department of Ceramic Engineering of Ohio State University.

CIVIL ENGINEERING

During the summer Prof. C. E. Sherman, head of the department of Civil Engineering, visited Yellowstone Park after an absence of twenty-five years, to see the improvements and changes that have occurred during that time. The Golden Gate bridge and road leading to the north entrance that Professor Sherman built in 1900 for light traffic are still in use, carrying heavy automobile traffic.

After leaving Yellowstone Park he traveled through most of the interior National Parks and inspected some of the largest engineering projects, including the Moffat Tunnel. While studying the city plan of Denver he was greatly impressed with the park system, which includes hundreds of miles of boulevards and twelve square miles of parks in the surrounding mountains, making it one of the most extensive in the world. On his return he studied the city plan of Chicago.

(Continued on Page 26)

CAMPUS NOTES

(Continued from Page 16)

CIVIL ENGINEERING

John C. Prior has been appointed Professor of Sanitary Engineering vice Prof. F. H. Eno, who is in charge of the cooperative subsoil survey.

The following additions and changes have been made in the faculty of the College of Engineering: Prof. Wm. D. Turnbull of the Dept. of Engineering Drawing is the new correspondent of the Engineering College to the Ohio State Monthly, taking the place of John M. Weed, who has left the University.

Milton Hegeler has been appointed half-time instructor in the Civil Engineering Department in place of John M. Weed, who is now inspector for the Portland Cement Association, in northern and central Ohio.

During the summer the following improvements were made on the Engineering Quadrangle:

Brown Hall was completely redecorated and the basement was completely remodeled, providing greatly increased quarters for the Photography Department and a new instrument room for the Civil Engineering Department.

Messrs. H. M. Hughes and E. P. Cody are proceeding with further investigations on Project 53, "The Flow of Concrete."

Professor Eno reports the following practical results of the co-operative subsoil survey in which the U. S. Bureau of Public Roards, the State Highway Department, and the University through the experiment station are studying subsoils of the Ohio highways:

1. The application of a porous sub-base between the pavement and heavy clay soils to prevent excess moisture from softening the subsoil and disrupting the road. While this is an expensive process, it is still much cheaper than maintenance and rebuilding of the pavement.

2. The ready determination by a simple slaking test of the character of the soil used in the shoulders of the roads as to whether waterproofing and more permanent construction must be used to save the road shoulders.

3. The determination by a simple percolation test as to whether the use of tile for sub-drainage may be effective or only a waste of energy and money.

The Survey has found by a series of semi-precise measurements that roads in Ohio are raised by frost and swelling of soils from one to three inches every winter.

Chas. E. Hamett and Samuel Shanker, who are studying for degrees in chemical engineering, are assisting Professor Eno in this work.

Professor Shanks reports that the Experiment Station Project 59 on "The Reinforcing Effect of Gunite and Reinforced Gunite on Corroded Floor Beams of Viaducts" has been finished and it is expected that the results will soon be published in the Experiment Station Bulletin.

CHEMICAL ENGINEERING

The Student Branch of the American Institute of Chemical Engineers anticipates the most active year of its history.

Sam Aranoff, the president for the year, and Carl Walker, the vice president, plan to call meetings twice a month. These meetings, as now outlined, will feature student discussions and papers, together with talks by outside men in the field of chemical engineering. In addition to this Prof. James R. Withrow, Head of the Department of Chemical Engineering, has secured a series of moving picture films on subjects of special interest to chemical engineers.

The annual "Chemical Engineers' Roundup," held the evening of October 6, was a good example of the type of meetings we can expect during the year. The Cadet Officers' Club was filled with embryo chemical engineers, and those in charge had prepared a good program. Dean Hitchcock and Professor Withrow were given the wide world as their subject and did it justice. There were two reels of moving pictures showing modern methods of mining sulphur, following which President Sam Aranoff extended a welcome to the new men, and Lewis Mong outlined the activities and purposes of the organization.

The group closed last year's activities with a picnic at Camp Burroughs on June the eighth. Dean Hitchcock and Professor Withrow demonstrated that important among the requirements of a good engineer is ability in playing ground ball. About twenty couples enjoyed the picnic lunch, and it was agreed that the picnic should become an annual affair.

W. F. Brown, instructor in the Department of Chemical Engineering, was sent as a delegate of the local chapter of Phi Lambda Epsilon to the Sesqui-Centennial meeting of the American Chemical Society, held recently in Philadelphia. He presented a paper on "The Production of Napthal Yellow 'S'" before the organic division of that society. Mr. Brown has had considerable experience in the organic field, and his paper was one of importance to the organic chemist.

ELECTRICAL ENGINEERING

Prof. C. A. Wright has a year's leave of absence to engage in research and development for the National Carbon Co. in Cleveland. His position as Professor of Communications has been taken by Prof. W. L. Everett, who comes here from the University of Michigan. He is a graduate of Cornell and has had considerable experience with telephone communication.

R. C. Higgy, Acting Director of the University broadcasting station, WEAO, reports that numerous improvements have been made in broadcasting equipment during the summer. A new downtown studio has been opened in the Neil House and every auditorium on the campus has a direct wire connection to the plant, thus enabling any program on the campus to be broadcast. Three complete portable broadcasting outfits have been procured to be used anywhere wire lines to the station are available. After much experimentation a portable mixer was built which can collect the sound from six microprones and vary the volume of each to suit the circumstances. This instrument has proven very useful in the broadcasting of football games, for the multitude of sounds arising on such an occasion can each be differentiated by regulating the volume from each microphone.

Professor Nold of the Department of Mines and Professor Bole of the Ceramic Department, are conducting a cooperative investigation of the ceramic industries.

R. C. Higgey, who has been Chief Engineer of the Broadcasting Station WEAO, has been appointeed Acting Director in the absence of Professor Wright.